BRUHAT BANGALORE MAHANAGARA PALIKE
BYATARAYANAPURA DIVISION

Name of the Work : Package-1, includes 10 works of Rs. 146.50 lakhs

SECOND & FINAL BILL

TEST REPORTS

TEJUS CONSULTANTS
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

TEJUS
CONSULTANTS

No. TC / BBMP / BYT-PMC / 450 / 19-20

Date: 16.09.2020

To
The Executive Engineer
Byatarayanapura Divison
Bruhat Bangalore Mahanagara Palike
Bangalore – 560 092

Dear Sir

Sub: Second and Final Bill for the work of Package-1, includes 10 works of Rs. 146.50 lakhs.

With reference to the above subject, this is to bring to your kind notice that we have scrutinized the **FIRST RA bill** submitted by **M/s KBR infratech Limited, #01, 1st Floor, 8th Main, RMV Extn 2nd Stage, Tatanagara, Bangalore-560094.** towards the above said work and arrived at an amount of **Rs. 4677236 (Rupees Fourty Six Lakhs Seventy Seven Thousand Two Hundred and Thirty Six Rupees Only**). The work has been completed satisfactorily.

This is for your kind information.

Thank you and assuring you the best of our Services at all the times

Yours faithfully
For Tejus Consultants
(Nischal M)

TEJUS CONSULTANTS

Assistant Executive Engineer
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

Test Report on Cement

roject	Package-1, includes 10 works of Rs. 146.50 lakhs
lient	Bruhat Bangalore Mahanagar Palike
onsultant	TEJUS CONSULTANTS
ontractor	M/s KBR infratech Limited
mple ID	Cement
ate of Sample ested	13-08-2020
mple pplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	102 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	482 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	4mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	28.00%	25 % to 35

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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

Authorised Signatory

TEJUS
CONSULTANTS

Test Report on Cement

ct	Package-1, includes 10 works of Rs. 146.50 lakhs
t	Bruhat Bangalore Mahanagar Palike
ultant	TEJUS CONSULTANTS
actor	M/s KBR infratech Limited
le ID	Cement
of Sample d	13-08-2020
le ied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	98 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	450 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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esults indicated above are based on the tests carried out on the samples
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Authorised Signatory

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TEST REPORT

ients	BRUHAT BENGALORE MAHANAGARA PALIKE
oject	Package-1, includes 10 works of Rs. 146.50 lakhs
nsultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
ntractor	M/s KBR infratech Limited

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

pe of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	PCC
cation/Source	At Site/Plant	**Date of Sampling**	12-08-2020
iod of Soaking	24 hours	**Date of Testing**	13-08-2020

No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		634	652	670	
B	Weight of oven - dry sample gm.		625	644	662	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1674	1684	1696	
E	Bulk specific gravity	B / (C + A - D)	2.660	2.650	2.659	**2.656**
G	Absorption (%)	(A - B) *100 / B	1.440	1.242	1.208	**1.297**

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Bangalore.

TEJUS CONSULTANTS

Authorised Signatory

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CONSULTANTS

TEST REPORT

ıts	Bruhat Bangalore Mahanagara Palike
ect	Package-1, includes 10 works of Rs. 146.50 lakhs
ultants	Tejus Consultants, Bangalore
ractor	M/s KBR infratech Limited

SIEVE ANALYSIS

Weight:	3000 gms		
of rial	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
le ion	At Site/Plant	Date of Sampling	13-08-2020
		Date of Testing	13-08-2020

ieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
nm	0	0	0	100.00	100
m	216	216	7.20	92.80	90 - 100
m	308	524	17.47	82.53	75 - 100
m	416	940	31.33	68.67	55 - 90
mm	486	1426	47.53	52.47	35 -59
mm	752	2178	72.60	27.40	8-30
mm	622	2800	93.33	6.67	0 - 10
	200	3000			-

rks : ✓ Satisfactory / Not Satisfactory

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TEST REPORT

ients	BRUHAT BENGALORE MAHANAGARA PALIKE
oject	Package-1, includes 10 works of Rs. 146.50 lakhs
nsultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
ntractor	M/s KBR infratech Limited

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

pe of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
cation/Source	At Site/Plant	Date of Sampling	12-08-2020
iod of Soaking	24 hours	Date of Testing	13-08-2020

No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		664	646	672	
B	Weight of oven - dry sample gm.		656	637	663	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1692	1682	1698	
E	Bulk specific gravity	B / (C + A - D)	2.656	2.665	2.663	**2.661**
G	Absorption (%)	(A - B) *100 / B	1.220	1.413	1.357	**1.330**

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Authorised Signatory

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TEST REPORT

nts	Bruhat Bangalore Mahanagara Palike
ect	Package-1, includes 10 works of Rs. 146.50 lakhs
sultants	Tejus Consultants, Bangalore
ractor	M/s KBR infratech Limited

SIEVE ANALYSIS

l Weight:	3000 gms		
of rial	Fine aggregate (River Sand/ M sand)	Proposed Use	PCC
ple tion	At Site/Plant	Date of Sampling	13-08-2020
		Date of Testing	13-08-2020

ieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
mm	0	0	0	100.00	100
m	218	218	7.27	92.73	90 - 100
m	326	544	18.13	81.87	75 - 100
m	406	950	31.67	68.33	55 - 90
nm	488	1438	47.93	52.07	35 -59
nm	756	2194	73.13	26.87	8-30
nm	632	2826	94.20	5.80	0 - 10
	174	3000			-

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CONSULTANTS

TEST REPORT

nts	Bruhath Bangalore Mahanagara Palike
ect	Package-1, includes 10 works of Rs. 146.50 lakhs
ultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
ractor	M/s KBR infratech Limited
l Weight in	3000

SIEVE ANALYSIS

of Material	40 mm down size			Proposed Use	PCC
le Location	At Site/Plant			Date of Sampling	13-08-2020
				Date of Testing	13-08-2020
ieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
.00mm	0	0	0.00	100.00	100
.00mm	0	0	0.00	100.00	-
.00mm	82	82	2.73	97.27	95-100
.00mm	1408	1490	49.67	50.33	30-70
.00mm	974	2464	82.13	17.87	10-35
75mm	432	2896	96.53	3.47	0-5
Pan	104	3000	100.00	0.00	

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TEST REPORT

nts	Bruhath Bangalore Mahanagara Palike
ject	Package-1, includes 10 works of Rs. 146.50 lakhs
sultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
tractor	M/s KBR infratech Limited
l Weight in	3000

SIEVE ANALYSIS

e of Material	40 mm down size			Proposed Use	PCC
ple Location	At Site/Plant			Date of Sampling	13-08-2020
				Date of Testing	13-08-2020
Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
0.00mm	0	0	0.00	100.00	100
3.00mm	0	0	0.00	100.00	-
0.00mm	86	86	2.87	97.13	95-100
0.00mm	1400	1486	49.53	50.47	30-70
0.00mm	970	2456	81.87	18.13	10-35
4.75mm	452	2908	96.93	3.07	0-5
Pan	92	3000	100.00	0.00	
arks :	Satisfactory / Not Satisfactory				

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Test Report on Cement

roject	Package-1, includes 10 works of Rs. 146.50 lakhs
lient	Bruhat Bangalore Mahanagar Palike
onsultant	TEJUS CONSULTANTS
ontractor	M/s KBR infratech Limited
mple ID	Cement
te of mple sted	14-08-2020
mple pplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	50 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	455 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	29.00%	25 % to 35

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TEST REPORT

ients	Bruhat Bangalore Mahanagara Palike
oject	Package-1, includes 10 works of Rs. 146.50 lakhs
nsultants	Tejus Consultants, Bangalore
ntractor	M/s KBR infratech Limited

SIEVE ANALYSIS

tal Weight:	3000 gms		
pe of terial	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
mple cation	At Site/Plant	Date of Sampling	14-08-2020
		Date of Testing	14-08-2020

S Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
00 mm	0	0	0	100.00	100
5 mm	208	208	6.93	93.07	90 - 100
5 mm	302	510	17.00	83.00	75 - 100
5 mm	402	912	30.40	69.60	55 - 90
0 mm	482	1394	46.47	53.53	35 -59
0 mm	760	2154	71.80	28.20	8-30
0 mm	638	2792	93.07	6.93	0 - 10
	208	3000			-

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TEST REPORT	
ients	BRUHAT BENGALORE MAHANAGARA PALIKE
oject	Package-1, includes 10 works of Rs. 146.50 lakhs
nsultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
ntractor	M/s KBR infratech Limited

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

pe of Material	Fine aggregate (River Sand/ M sand)	Proposed Use	concrete
cation/Source	At Site/Plant	Date of Sampling	13-08-2020
riod of Soaking	24 hours	Date of Testing	14-08-2020

l. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	650	677	658	
B	Weight of oven - dry sample gm.	643	671	648	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1683	1697	1689	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.657	2.631	2.656	**2.648**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.089	0.894	1.543	**1.175**

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TEST REPORT

ts	Bruhat Bangalore Mahanagara Palike	
ect	Package-1, includes 10 works of Rs. 146.50 lakhs	
ultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore	
ractor	M/s KBR infratech Limited	
Weight:	10000	gms

SIEVE ANALYSIS

of Material	20 mm down size		Proposed Use	Concrete	
ple Location	Plant/At site		Date of Sampling	14-08-2020	
			Date of Testing	14-08-2020	
S Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
40.00 mm	0	0	0	100	100
20.00 mm	258	258	2.58	97.42	95 - 100
10.00 mm	4839	5097	50.97	49.03	25 - 55
4.75 mm	4215	9312	93.12	6.88	0 - 10
Pan	688	10000			

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TEST REPORT

ents	Bruhat Bangalore Mahanagara Palike	
oject	Package-1, includes 10 works of Rs. 146.50 lakhsKodigehalli.	
nsultants	TEJUS CONSULTANTS	
ntractor	M/s KBR infratech Limited	
Total Weight:	10000	gms

SIEVE ANALYSIS

pe of Material	12.5 mm down size	Proposed Use	CONCRETE
mple Location	At Site/Plant	Date of Sampling	14-08-2020
		Date of Testing	14-08-2020

Sieve Size (in mm)	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing
20.0	0	0	0	100	100
12.5	558	558	5.58	94.42	90-100
10.0	4675	5233	52.33	47.67	40-85
4.75	4535	9768	97.68	2.32	0-10
Pan	232	10000			

marks : Satisfactory / Not Satisfactory

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PRECAST SLAB (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
ctor	:	M/s KBR infratech Limited
f Work	:	Package-1, includes 10 works of Rs. 146.50 lakhs
mple Tested	:	3
Testing	:	28-08-2020
cal Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
f Concrete	:	M_{20} - 100mm thick

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50.00	90.00	0.458	2591.75	1.80	0.960	39.50	20.12	21.73	20.86	26.07
50.00	90.00	0.460	2603.07	1.80	0.960	39.20	19.96	21.56	20.70	25.87
50.00	90.00	0.456	2580.43	1.80	0.960	38.95	19.84	21.42	20.57	25.71

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TEJUS CONSULTANTS

Consultant's Representative

TEJUS
CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

	:	Bruhat Bangalore Mahanagara Palike
tor	:	M/s KBR infratech Limited
f Work	:	Package-1, includes 10 works of Rs. 146.50 lakhs
ample Tested	:	3
Testing	:	28-08-2020
cal Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
f Concrete	:	M_{20}, 100mm thick

Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
50.00	90.00	0.458	2591.75	1.80	0.960	39.50	20.12	21.73	20.86	26.07
50.00	90.00	0.460	2603.07	1.80	0.960	39.20	19.96	21.56	20.70	25.87
50.00	90.00	0.456	2580.43	1.80	0.960	38.95	19.84	21.42	20.57	25.71

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Consultant's Representative

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CONSULTANTS

PRECAST SLAB (CORE) TEST REPORT

nt	:	Bruhat Bangalore Mahanagara Palike
tractor	:	M/s KBR infratech Limited
e of Work	:	Package-1, includes 10 works of Rs. 146.50 lakhs
f Sample Tested	:	3
of Testing	:	29-08-2020
inical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
e of Concrete	:	M_{20}, 100mm thick

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50.00	90.00	0.462	2614.39	1.80	0.960	38.54	19.63	21.20	20.35	25.44
	50.00	90.00	0.458	2591.75	1.80	0.960	38.66	19.69	21.26	20.41	25.52
	50.00	90.00	0.452	2557.80	1.80	0.960	38.40	19.56	21.12	20.28	25.35

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Consultant's Representative

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PRECAST SLAB (CORE) TEST REPORT

ent	:	Bruhat Bangalore Mahanagara Palike
ntractor	:	M/s KBR infratech Limited
me of Work	:	Package-1, includes 10 works of Rs. 146.50 lakhs
of Sample Tested	:	3
e of Testing	:	29-08-2020
hinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
de of Concrete	:	M_{20} . 250mm Thick

No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	100.00	180.00	3.446	2437.55	1.80	0.960	158.92	20.23	21.85	20.98	26.22
2	100.00	180.00	3.438	2431.89	1.80	0.960	158.64	20.20	21.81	20.94	26.18
3	100.00	180.00	3.450	2440.38	1.80	0.960	158.42	20.17	21.78	20.91	26.14

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The results indicated above are based on the tests carried out on the samples received in the laboratory.

ny Query regarding the report must be reported reported within 15 days from the date of

Consultant's Representative

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

TEJUS
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Test Report on Compressive strength of Solid Block

ject	Package-1, includes 10 works of Rs. 146.50 lakhs
nt	Bruhat Bangalore Mahanagar Palike
sultant	TEJUS CONSULTANTS
tractor	M/s KBR infratech Limited
s sectional area	60000mm2
of cube	400mm x 150mm x 200mm
of Block Tested	1
rence IS code:	IS:2185 (Part 1)- 2005

Sl.No.	Date of Sampling	Date of testing	Area of Cube	Failure load	Compressive strength	Minimum Required compressive strength of individual units
			mm^2	KN	N/mm^2	N/mm^2
1	03-09-2020	03-09-2020	60000	312.00	5.20	5.21
2	03-09-2020	03-09-2020	60000	316.00	5.27	
3	03-09-2020	03-09-2020	60000	310.00	5.17	

Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.
Bangalore.

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KERB STONE (CORE) TEST REPORT

t	:	Bruhat Bangalore Mahanagara Palike
ractor	:	M/s KBR infratech Limited
of Work	:	Package-1, includes 10 works of Rs. 146.50 lakhs
Sample Tested	:	3
of Testing	:	03-09-2020
nical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
of Concrete	:	M_{15}

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the C	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50.00	85.00	0.422	2528.50	1.70	0.960	33.22	16.92	18.27	17.54	21.93
	50.00	85.00	0.416	2492.55	1.70	0.960	32.50	16.55	17.88	17.16	21.45
	50.00	85.00	0.432	2588.42	1.70	0.960	32.26	16.43	17.74	17.03	21.29

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esults indicated above are based on the tests carried out on the samples received in the laboratory.
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Assistant Executive Engineer,
Kodigehalli Sub Division,
Yelahanka Zone, B.B.M.P.,
Bangalore.

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Consultant's Representative

TEJUS
CONSULTANTS

KERB STONE (CORE) TEST REPORT

nt	:	Bruhat Bangalore Mahanagara Palike
ractor	:	M/s KBR infratech Limited
e of Work	:	Package-1, includes 10 works of Rs. 146.50 lakhs
Sample Tested	:	3
of Testing	:	04-09-2020
inical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
e of Concrete	:	M_{15}

	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
	50.00	85.00	0.428	2564.45	1.70	0.960	32.36	16.48	17.80	17.09	21.36
	50.00	85.00	0.436	2612.39	1.70	0.960	32.54	16.57	17.90	17.18	21.48
	50.00	85.00	0.416	2492.55	1.70	0.960	32.44	16.52	17.84	17.13	21.41

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